

19991124.ba v02_n736.bam.991124

>From ???@??? Wed Nov 24 19:54:25 1999
Message-Id: <199911242257.dAOMvaH04286@sco.theporch.com>
Date: Wed, 24 Nov 1999 16:56:51 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2736

BOATANCHORS Digest 2736

Topics covered in this issue include:

- 1) RE: Automatic Electric 32A21 -- the allure of heavy metal
by "Ed Sieb" <sieb@sympatico.ca>
- 2) NC-183 Product Detector Mod
by Robert Lawson <lawson_r@popmail.firn.edu>
- 3) RE: Standards
by Roy Morgan <roy.morgan@nist.gov>
- 4) More on the website...
by "Ed Tanton" <n4xy@att.net>
- 5) Re: AC Voltage Calibration
by Arden Allen <gumbear@pacbell.net>
- 6) Re: AC Voltage Calibration
by "Ben Hall" <kd5byb@wt.net>
- 7) RE: Boatanchor/Glowbugs CW "net"...
by "Sandy W5TVW" <ebjr@i-55.com>
- 8) Heatkit Litterature for free
by =?iso-8859-1?q?ragnar=20otterstad?= <la5he@yahoo.no>
- 9) De profundis -- out of the trash pile
by MODSTEPH@ACS.EKU.EDU
- 10) RE: AC Voltage Calibration
by "Bill Hawkins" <bill@iaxs.net>
- 11) Re: chicago testing at DA-federal building
by James Hanlon <knjhanlon@uswest.net>
- 12) Radio Criminal shorted to ground
by "Jim Reynolds" <ki6up@earthlink.net>
- 13) Re: "A Fair Day"
by Jderm740@aol.com
- 14) Military H-251/U headset
by Richard Loken <richardlo@devax.admin.athabascau.ca>
- 15) ART-13 Wanted for museum
by Dexter Francis <cwest@xmission.com>
- 16) Message Forward
by Jerry Proc <jproc@idirect.com>
- 17) Fwd: SM-220 & BS-8
by w5sqe@iname.com
- 18) More on Fleamarkets

by Don <71333.144@compuserve.com>
19) Gonset Comm III back wanted
by Don <71333.144@compuserve.com>
20) RE: AC Voltage Calibration
by "Bill Hawkins" <bill@iaxs.net>
21) Re: FCC testing - Cotton
by w8au@sssnet.com
22) AC Voltage Calib: a li'l note
by "Tom R. Rice" <tomrice@netcom.com>

From: "Ed Sieb" <sieb@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Automatic Electric 32A21 -- the allure of heavy metal
Date: Tue, 23 Nov 1999 19:29:06 -0500
Message-ID: <LOBBJH0L00HLIPLONIAFCEIICCAA.sieb@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

On Tuesday, November 23, 1999 7:20 AM, Andrew Emmerson wrote:

> Knowing the way we relate to radio gear in chunky metal
> construction form,
> I hope you can understand how I also like 'old technology' telephone
> switching plant. In this connection I'm keen to locate an
> Automatic Electric
> 32A21 PAX (or similar).

There are several excellent Telephone collectors web sites:
Antique Telephone Collectors Assoc:
<http://www.cybercomm.net/~chuck/atca.html>

Telephone history Web Site:
<http://www.cybercomm.net/~chuck/phones.html>

Antique Telephones Link Listings:
<http://www.cybercomm.net/~chuck/indiv2.html>

Telephone Collectors International Main page (with good links):
<http://www.voicenet.com/~tciplace/links/links.htm>

These pages also have links to buy/sell pages.
As a collector myself, I have often seen older "step" and "cross-bar"
PBX's for sale

Ed

VA3ES

Date: Tue, 23 Nov 1999 18:55:34 -0500
From: Robert Lawson <lawson_r@popmail.firn.edu>
Subject: NC-183 Product Detector Mod
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <383B2975.6C98@popmail.firn.edu>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Fellow BA'er,

Anybody have an Electric Radio magazine issue number 44 which has the National NC-183D modification/addition of a product detector? Really would like to have a copy of that article. I will gladly pay photocopying and mailing fees.

Regards,

Robert WPE4FGR W4RL Pensacola Florida

Of non-BA note but of radio note, my sweet wife just brought home from SAM's Wholesale ('Big-house' Wal-Mart) a Freeplay AM/FM solar and/or hand cranked spring generator radio that was supposed to be one of my Christmas gifts. I could not wait. Have it playing at the moment listing to a B-ball game. Facinating with all it's gageets. I love it. 59 bucks.

Message-Id: <4.1.19991123214129.00b19dd0@sdct-sunsv1.ncsl.nist.gov>
Date: Tue, 23 Nov 1999 21:50:47 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Roy Morgan <roy.morgan@nist.gov>
Subject: RE: Standards
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>From: "Bill Hawkins" <bill@iaxs.net>
>To: Old Tube Radios <boatanchors@theporch.com>
>Subject: RE: Standards

...

>This interesting technique requires an adiabatic calorimeter, meaning
>there is negligible heat transfer to/from the liquid

...

>I think if I was gonna do this, I'd put a 200 ohm resistor in the water

Bill and others,

Hello from NIST. The Electronics and Electricity Laboratory here is responsible for working out all the details of these measurements. You can find more information at:

http://www.eeel.nist.gov/eee1_pages/811_02.html

Click on "AC-DC Difference Standards and Measurement Techniques", which includes a list of 95 references.

Roy

- Roy Morgan
100 Bureau Drive, Stop 8970
National Institute of Standards and Technology
Gaithersburg MD 20899-8970
Voice: 301-975-3254
Fax: 301-948-6213
E-mail: roy.morgan@nist.gov --

From: "Ed Tanton" <n4xy@att.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "WB4RUA John Boston" <bostonjh@nwga.com>,
"Allen Bond WB4GNT" <mgs@avana.net>,
"AE4IC Bob Kellogg" <ae4ic@nr.infi.net>,
"AE4GX Sam Billingsley" <sbillingsley@mindspring.com>,
"Vintage Solid State List" <VSS@LISTSERV.TEMPE.GOV>,
"BoatAnchor Reflector" <boatanchors@theporch.com>,
"Collins Reflector" <COLLINS@LISTSERV.TEMPE.GOV>, <milsurplus@qth.net>,
"N0BS Tom Moll" <tomm@xata.com>, "QRP-L Reflector" <qrp-l@Lehigh.EDU>,
"Randy Tudor" <rtudor@att.net>, "VE3CQD Dan Tang" <ve3cq@rac.ca>,
"W4OCW Ken" <w4ocwken@aol.com>, "W4UOC Tom Koch" <W4UOC@aol.com>,
"W5SUM Ronnie Hull" <w5sum@ms1.nwla.com>
Subject: More on the website...
Date: Tue, 23 Nov 1999 21:49:43 -0500
Message-ID: <NBBBJDEEIFDDANGEGHLBIENPHNAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Please excuse my hitting this again, but I got a bunch of new photos I did

into the website, including:

- 1) Interior shots of the Chuck Rippel-rebuilt R-390-A
- 2) Photos of the TMC CV-591A/URR SSB Converter I have to go with the R-390-A (note: there will be a shootout between the TMC and the Kahn Labs RSSB-62-1B-may the best converter win!)
- 3) For you QRP Persons and CW people: finally photos of my Autronics Paddle AND Autronics Keyer (the latter being so very difficult to find!)

Next on the horizon for the website will be the test equipment section.
Thanks for the read.

72 / 73 Ed N4XY email: <n4xy@arrl.net>

webpage: <http://www.qsl.net/n4xy/>

Date: Tue, 23 Nov 1999 19:30:20 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: AC Voltage Calibration
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FLO00JDQN4AJX@mta3.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

I once cooked up a scheme for a photometric AC calibrator. You alternate a precision DC voltage with a stable but adjustable AC source (with good sinusoidalistic tendencies). Using a switch to flip between the two sources you observe the output of a photocell and keep adjusting the AC supply until there is no variation in photocell output. The switch can be a relay run by a square wave source with 50% duty cycle. The calibration time should be long enough for thermal equilibrium to be reached so that you aren't constantly trying to compensate for drift. Ambient temperature should be constant and the apparatus isolated from air currents. I don't know what the limits of accuracy for such a lashup would be but it seems to me you could easily get better than 1%, good enough for calibrating a shop instrument. Any comments?

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

From: "Ben Hall" <kd5byb@wt.net>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 23 Nov 1999 22:25:06 +0600
Subject: Re: AC Voltage Calibration
Message-id: <383b68a2.14019.0@wt.net>
MIME-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>I once cooked up a scheme for a photometric AC calibrator

This reminds me of a scheme I think I read here on the BA list. In between two light bulbs is a peice of paper with a drop of oil on it. One light bulb is fed with DC, the other with AC. You adjust the brightness so that you don't see the oil spot anymore, and then the heating values are equal...

I think it is pretty ingenious... Who suggested this?

Thanks,
Ben

Benjamin D. Hall, KD5BYB
e-mail: KD5BYB@WT.NET

Message-ID: <000301bf360a\$559ba5e0\$ee65e7d0@sandy-s-pentium>
From: "Sandy W5TVW" <ebjir@i-55.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: Boatanchor/Glowbugs CW "net"...
Date: Tue, 23 Nov 1999 21:40:18 -0000
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello All!

Just a reminder to all who are active on the air. There is a group of

Boatanchor/Glowbug affectionados, who meet fairly regularly on 3578-3579 Khz. nightly. Most of the "regulars" show up around 0200-0300Z or so. Personally, I'm usually on from dark (CST) to around 0400Z sometimes later. We have also carried out some tests on 1815 Khz. on 160 meters between Louisiana, Texas, New Mexico and Colorado.

Come join us! Everyone is welcome whether you have boatanchor gear on the air or "sand state" stuff! If we are sending too fast for you, let us know and we will be glad to QRS! Everything shows up from TPTG and Hartley rigs to 250-500 watters!

73,

Sandy W5TVW

Message-ID: <19991124100419.21093.rocketmail@web1806.mail.yahoo.com>
Date: Wed, 24 Nov 1999 11:04:19 +0100 (CET)
From: =?iso-8859-1?q?ragnar=20otterstad?= <la5he@yahoo.no>
Subject: Heatkit Litterature for free
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

I will give away sales bulletins from early 1960 for
whoever pays postage :

HW12
HW32
HW30
H010

73 rag

Do You Yahoo!?
FÅ din egen, gratis @yahoo.no-adresse på <http://mail.yahoo.no>

Date: Wed, 24 Nov 1999 07:59:48 -0500 (EST)
From: MODSTEPH@ACS.EKU.EDU
Subject: De profundis -- out of the trash pile
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <01JIPIJ1ACGY00465B@ACS.EKU.EDU>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

Gang:

Mentioned earlier being given an HQ-110 and a Viking I (that's ONE) that were otherwise headed for the scrap heap. Got the 110 on the air a couple of days ago; got the Viking I running last night.

The Viking has had the 4D32-to-829B mod already put in. I have paperwork on the way from list members on the mod (and got info thru e-mail - thanks to all!). This Viking as as pretty as I have ever seen, as close to "like new" as any outside a museum.

Anyway, I had the pair on and they are working. Still some

minor things in the Viking, like knowing grid/plate current limits (ran it at 60 watts out last night, holding it down until I know) (I do have a range sent by BA member, and kept within it - and a bit less).

I had an HQ-110 new forty years ago - my second receiver. Traded my NC-88 (with Heath Q-mult on it). This one is better: first one tended to drift; this does not. Q-mult still not as good as Heath's, but doing well. Main thing is difference in knowledge - how to make it work its best given what it is. This one is doing much better than the one 40 years ago... more because of ME. Guess those "years of experience" do help!

Now on to Columbus, IN, for family Thanksgiving, then to Evansville hamfest on Saturday (carrying mostly parts - except for a Signal Shifter...). Happy Thanksgiving to all!

73, Al N5AIT

From: "Bill Hawkins" <bill@iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: AC Voltage Calibration
Date: Wed, 24 Nov 1999 10:47:57 -0600
Message-ID: <000001bf369b\$a92d1cc0\$0b0aa8c0@normandale>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Arden, I think that's a great idea. The light bulb isn't linear in light vs voltage, but that means more sensitivity in a narrow range. Since you're using a relay to switch between sources, you can use an AC amplifier on the photocell to tune for null. Then you could use another set of contacts on the relay as a synchronous rectifier and use the DC error signal to servo the reference DC source. All easier with SS components, but not nearly the challenge of doing it with pre-SS parts. Most of the error will be caused by the relay switching time.

I wonder if that scheme is in Roy Morgan's references ...

Ben, the oil drop is a differential scheme where many unknowns cancel out, but it will have to be calibrated to remove the differences between bulbs. The trick is how you balance brightness when both bulbs are fed from the same source.

You see, my problem is that I'm more excited about tuning a servo

than tuning a final, but I join the list in wanting to do it with vacuum tubes.

Regards, and happy turkey day to those who share that custom,
Bill Hawkins

Message-ID: <383C28C7.2C6212E5@uswest.net>
Date: Wed, 24 Nov 1999 11:04:56 -0700
From: James Hanlon <knjhanlon@uswest.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: chicago testing at DA-federal building
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

W8AU wrote, "... you missed out on the biggest "bull of the woods," Dick Cotton, W8DX. A pure reign of terror would aptly describe his test sessions.... (every 3 months at Cleveland) Loud, snarly and sometimes insulting."

Well do I remember Dick Cotton from the quarterly tests in Cincinnati in the early 50's. But as Perry suspects, he did have a heart of gold. When I showed up for my Novice exam in February of 52, there were about 12 of us in the room, eleven snout nosed kids and one adult male who was Black. Remember that this was 1952, and it would have been very common for Mr. Cotton to have given that guy no quarter just because of his color.

Well something like half of us passed the 5wpm code test, including my Black companion, we were all survivor buddies at that point. The next hurdle was the CW sending test (this really was the dark ages!). When it came time for my Black friend to send we was so nervous that he was making all sorts of mistakes. Mr. Cotton had the perfect excuse for tossing him out - but he didn't. He told him to settle down, that he was just nervous and that this was something that he could do. They guy did settle down, sent a minute of perfect cw and passed his test. After that I never believed all of the horror stories that floated around about Dick Cotton.

Jim, W8KGI

From: "Jim Reynolds" <ki6up@earthlink.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Radio Criminal shorted to ground
Date: Wed, 24 Nov 1999 14:11:22 -0600
Message-ID: <000a01bf36b8\$13fb9380\$1e49fc9e@ripcord>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Although a bit off topic, I had to share this story with all of you.

I am a correctional Probation Officer in the state of FL, and assigned inside a max security prison as a classification officer. I have a case load of over 200 and they all are the usual social retards, but last week made up for all the rest.

I was interviewing the new intakes received from the reception center and called this heavy set, ugly and sorta balding reddish hairdo sob story in the office. I asked it what brought him to my prison and this is the story he told me, of all CPO's he could have gotten to manage his comfort level...

He said, "I am a HAM Radio Operator and I violated the trust of my brother ham operators, There is a bond of trust among them and I took advantage of it by offering to sell gear that I didn't have and steeling their money."

By now I am looking at this mutation of humanity thinking of the stories I heard about that Ham in Florida ripping us off etc...and how sweet justice in this case will be.

he went on saying, " I ripped off a lot of folks out there. You know, ham operators are a trusting group when it comes to other hams and I fed my habit from that trust....." On and on he went and by now breaking his body was sounding really good.

He even had the nerve to say he really didn't want me to assign him to food service if I could help it, because of the long hours and the heat in the summer and with no Air conditioning... well...

I asked the sub life form why he did these things, as I filled out his job assignment to food service. He started to reply and I told him to shut up and stand outside my office with his nose on the wall. I summoned my friend Mike Renaldo, also a ham, but a VHF type, to my office. Once he arrived I introduced him to Mike Kirby, our newest inmate and Ham Radio Criminal. Mikes response was words clear to Kirby that he was " out of gas..."

My friends in security performed a search of Kirbys property finding contraband. He is going to spend some time on out chain gang learning a new

meaning to his now miserable existence.

He had the nerve to ask when I was going to allow him off the chain gang and back to the general population, my response was only suitable to his case...

"when the sunspot cycle changes..."

I didn't say which cycle.

Any one want to pass a message to Mr. Kirby, he will be busy for a very long time with the chain gang.

Jim
KI6UP

From: Jderm740@aol.com
Message-ID: <0.35229d7e.256da1e4@aol.com>
Date: Wed, 24 Nov 1999 15:17:40 EST
Subject: Re: "A Fair Day"
To: Old Tube Radios <boatanchors@theporch.com>
CC: boatanchors@theporch.com
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

William

I like your list of goodies but I wonder did you see any MT-275/ARN-6 mounts? This mounts the C-149/ARN-6 control head. I have just about everything including the spline cables, but not the mount. The wire and interconnecting cables I can make, but that control mount would be an SOB to build. It's not very big; 8.25X4.875x1.562 which isn't much, but the electrical connector!! OY!!

Jack McDermott Jderm740@aol.com

Date: Wed, 24 Nov 1999 13:46:13 -0600 (MDT)
From: Richard Loken <richardlo@devax.admin.athabascau.ca>
Subject: Military H-251/U headset
To: Old Tube Radios <boatanchors@theporch.com>
Message-id:
 <Pine.PMDF.3.95.991124134411.545327764M-1000000@devax.admin.athabascau.ca>
MIME-version: 1.0
Content-type: TEXT/PLAIN; charset=US-ASCII

The collective "you" are all knowing so what equipment is an H-251/U headset

used with and when were they made?

Richard Loken VE6BSV, Systems Programmer - VMS
Athabasca University
Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

Message-ID: <383C505D.B0BD1871@xmission.com>
Date: Wed, 24 Nov 1999 13:54:01 -0700
From: Dexter Francis <cwest@xmission.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ART-13 Wanted for museum
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

Greetings all -

Owing to a rather interesting chain of events I am now in a new line of employment - as the Director of Operations of the Southern Utah Air Museum (located in Washington UT, just outside of Zion's National Park.) One of our aircraft nose sections, a KC-97, is in need of a ART-13 to compliment its BC-348. If any one is aware of an ART-13, working or not, which is available, please contact me. (Have cash and some gear to trade.)

Thanks for your time.

-df

--

Parts and Tubes for Amateurs, Antiques and Experimenters
CWest Tube Sales - mail@cwesttubes.com (801) 363-TUBE
www.xmission.com/~cwest

Message-ID: <383C5657.ABE2C1A2@idirect.com>
Date: Wed, 24 Nov 1999 16:19:20 -0500
From: Jerry Proc <jproc@idirect.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Message Forward
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Folks,

This message arrived in my mailbox. If the item is of interest to you please reply *directly* to Isaac Shaffer: radiowave_1999@yahoo.com

Subject: Dnamotor
Date: Wed, 24 Nov 1999 12:37:47 -0800 (PST)
From: rw Wave <radiowave_1999@yahoo.com>
To: jproc@idirect.com

Hi - I found your website and was wondering if you could help me.

I inherited some radio surplus equipment from my late uncle about 6 years ago, (I'm 16) but now am in a bind and need to sell a lot of it.

I was wondering if you would happen to know something about the following piece of equipment or could point me in the right direction.

What i have is a Dynamotor (says manufactured for the Navy Department) that has never been used - in original box & packaging. It was manufactured by Wincharger Corporation out of Sioux City, Iowa. Looks to be made in either 1941 or 1942. The Model # is CWD-21AAX. It weighs 11 pounds.

If you can point me in the right direction, it would be much appreciated.

Thanks & 73,
Isaac Shaffer - N3VGZ

--

Regards,
Jerry Proc VE3FAB jproc@idirect.com
Web: www3.sympatico.ca/hrc/haida
HMCS HAIDA Historic Naval Ship, Toronto Ontario

From: w5sqe@iname.com
MIME-Version: 1.0
Message-Id: <9911241634309K.06794@weba4.iname.net>

Date: Wed, 24 Nov 1999 16:34:30 -0500 (EST)
Content-Type: Text/Plain
Content-Transfer-Encoding: 7bit
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Fwd: SM-220 & BS-8

> Within the last few weeks someone was trying to sell the Kenwood SM-220 & BS-8
> for about \$150. At the time I did not need one, and now I do.
> Any possibility it did not sell?
> Please no flames, and reply directly to me.
> Regards,
> Jim Tolar W5SQE
> W5SQE@iname.com
>
> -----

Get free personalized email at <http://www.iname.com>

Date: Wed, 24 Nov 1999 16:49:45 -0500
From: Don <71333.144@compuserve.com>
Subject: More on Fleamarkets
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199911241652_MC2-8E51-E70@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
charset=us-ascii
Content-Disposition: inline

The other day, I got into a long discussion with a guy who collects glass candy containers and other odd glass stuff like glass "hand-grenades" full of water used to fight fires in the late 1800s. He was lamenting the decline of his hobby in the same terms that we often do. From the decline of the fleamarkets to the impact of eBay, it was all "ruining" his hobby just like it is "ruining" BA collecting.

So I dunno...I guess I'm thinking that the forces at work here are pretty universal to the whole idea of "collecting" and not unique to us at all. Maybe we are just riding the same tide as the rest of the boats.

73, Don

Date: Wed, 24 Nov 1999 16:51:33 -0500
From: Don <71333.144@compuserve.com>

Subject: Gonset Comm III back wanted
To: Old Tube Radios <boatanchors@theporch.com>
Cc: baswaplist <baswaplist@foothill.net>
Message-ID: <199911241654_MC2-8E7D-6742@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
 charset=us-ascii
Content-Disposition: inline

I need the back plate for a Gonset VHF amplifier. The back plate from an ordinary Communicator III would be an acceptable substitute. Anyone have a parts rig laying around?

73, Don

From: "Bill Hawkins" <bill@iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: AC Voltage Calibration
Date: Wed, 24 Nov 1999 16:13:38 -0600
Message-ID: <000701bf36c9\$28437860\$0b0aa8c0@normandale>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

That last discussion of RMS calibration reminded me that you will need a potentiometer to measure the reference DC voltage against the standard cell. Leeds and Northrup, and several others, made them to measure the millivolt output of thermocouples. The principle applies to higher voltages since it is basically half of a four arm bridge. The other half of the bridge is just the standard cell. The usual null galvanometer is used to detect balance. Accuracy depends on the ratio arms and the cell.

But somewhere along the way, the term 'potentiometer' was applied to a simple variable resistor, and shortened to 'pot'. Does anybody know how that happened, or have a reference to history? My thought is that it was an early use of technological marketing hype, "Our variable resistor is so accurate, we call it a potentiometer." But then, I am excessively irritated by marketing hype, which seems out of control now that no one refutes it in public lest they lose revenue from it (magazines, TV news).

Maybe it's just the symbol contraction which is part of human nature. The term 'pot' is a marvel of simplicity compared to 'variable resistor' or 'rheostat', like 'cap' for 'capacitor'. Hmm, what's the nickname for

'resistor'?

Hope that's not too far off topic for y'all.

Regards,
Bill Hawkins

P.S. Followers of Uncle Al (or strange humor) shouldn't miss this Monday's column, where he decides to cash in on Poke-Mon by becoming Pokey Al. Among the hundreds of characters you can trade are Mechanic Al, Electric Al, Digit Al, and Cynic Al. Look for Al Sicherman at www.startribune.com.

Message-Id: <3.0.5.32.19991124172816.007afad0@mail.sssnet.com>
Date: Wed, 24 Nov 1999 17:28:16 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: w8au@sssnet.com
Subject: Re: FCC testing - Cotton
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Jim:

Of course, I sat before Cotton twice, and the story of getting "tossed out" of the exam was my second appearance. (the BA content thing)

My first visit was similar to yours. I had just turned 15, and was one of the 15 or 20 that passed the 13 wpm test, all of us soaking wet!

When I sent up to the front to do the sending test, my hands were so sweaty I couldn't get a grip on the key adjustments (the previous guy had screwed the spring way too tight for my fist, and locked it down). I fiddled with them to no avail and looked sheepishly at Dick who was wondering why I was taking so much time. When I told him I couldn't adjust the key because my hands were too sweaty, he actually smiled and chuckled and got up, came over and unloosened the locking nut for me and sat down. After that, I sailed thru the sending test, sending everything he told me to, and at a 20 wpm+ rate....

Yes, he did have a heart of gold that he couldn't hide ALL of the time!

Tnx for your story....

Perry w8au

At 11:04 AM 11/24/99 -0700, you wrote:
>Well do I remember Dick Cotton from the quarterly tests in

>Cincinnati in the early 50's. But as Perry suspects, he did
>have a heart of gold. When I showed up for my Novice exam
>in February of 52, there were about 12 of us in the room,
>eleven snooty nosed kids and one adult male who was Black.
>Remember that this was 1952, and it would have been very
>common for Mr. Cotton to have given that guy no quarter just
>because of his color.

When it came time for my
>Black friend to send he was so nervous that he was making
>all sorts of mistakes. Mr. Cotton had the perfect excuse
>for tossing him out - but he didn't. He told him to settle
>down, that he was just nervous and that this was something
>that he could do. The guy did settle down, sent a minute
>of perfect CW and passed his test. After that I never
>believed all of the horror stories that floated around about
>Dick Cotton.

>

>Jim, W8KGI

From: "Tom R. Rice" <tomrice@netcom.com>
Message-Id: <199911242256.0AA11564@netcom.com>
Subject: AC Voltage Calib: a li'l note
To: Old Tube Radios <boatanchors@theporch.com>
Date: Wed, 24 Nov 1999 14:56:15 -0800 (PST)
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

With all this discussion of AC volts, perhaps the
following note will be of use to somebody:

(From Electronic Design, April 1, 1996, page 88)

True RMS Operation Test

by Herman P. Raab
Engineering Services
9140 Sherwood Lane
Indianapolis, IN 46420-1252
(317) 848-4950

The following is a simple test to determine whether your
voltmeter or DVM produces true RMS voltmeter readings--
and it doesn't require using a second meter:

Connect a diode, such as a 1N4004, in series with the voltmeter and provide a switch to bypass the diode. If the meter's input impedance is greater than 100 k Ohms, provide a bypass resistor of 33 k 1/2 W across the meter.

Then, using this circuit with the switch closed, measure the ac power-line voltage. Open the switch and take a second reading of the half-wave rectified voltage on the ac power line.

If the meter is a true RMS meter, the second reading will be 70.7% of the first reading. On the other hand, if the second reading is only 50%, this indicates that the meter is responding to the average instantaneous voltage and has been calibrated by the manufacturer to output a value equal to the RMS equivalent for a sine wave input and will produce erroneous RMS readings for non-sinusoidal input.

The mathematics of this test method is straightforward. First, for line voltages of greater than 100 V, the forward drop in the diode produces only a negligible error (less than 1%). The swamping resistor, if necessary, negates any small reverse leakage introduced by the diode. Discarding every other half cycle cuts the average of the instantaneous voltage of the ac power line in half, and also cuts in half the average of the square of the instantaneous voltage. The root of this mean square is the square root of 0.5 or 0.707.

73 and a Happy Tnxgiving to you all from WB6BYH

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"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com

End of BOATANCHORS Digest 2736
